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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/779,610		02/18/2004	Shigeyasu Morihiro	21581-00318-US	1339
30678	7590	03/23/2006		EXAMINER	
		E LODGE & HUT	METZMAIER, DANIEL S		
	SUITE 800 1990 M STREET NW			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20036-3425			1712		
			DATE MAILED: 03/23/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Comments	10/779,610	MORIHIRO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Daniel S. Metzmaier	1712				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>20 M</u>	ay 2004 & 20 Oct 2005.	•				
2a) This action is FINAL . 2b) ▼ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confidence of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine 11).	epted or b) objected to by the Idrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5/20 & 10/20/2004	6) Other:	ate atent Application (PTO-152)				
PTOL-326 (Rev. 7-05) Office Act	tion Summary Par	rt of Paper No./Mail Date 20060319				

DETAILED ACTION

Claims 1-6 are pending.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which 1. papers have been placed of record in the file.

Specification

2. The abstract of the disclosure is objected to because the abstract should be a brief narrative of the disclosure as a whole in a single paragraph of 150 words or less commencing on a separate sheet following the claims.

Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 2, 5 and 6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear what units the melting point temperature is measured.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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6. Claims 1-2, 4, and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Horowitz et al, US 6,228,934. Horowitz et al (abstract; column 1, lines 23-26 and Table

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1; column 4, lines 5-7; column 5, lines 21-23 and 27-39; column 6, lines 31-42) disclose

the treatment of polyhydroxyalkanoates (PHAs) polymers to obtain a suspended coating

product having a particle size of less than 5 microns, preferably less than 1.5 microns.

The PHA materials are characterized (column 1, lines 23-26) as having a Tg of

generally less than 5 C. The suspension may be further subjected (column 5, lines 27-

39) to homogenization or milling to maintain a smaller particle size throughout. The

melting point of the Commercial poly-3-hydroxybuterate-co-7%-hydroxyvalerate (PHBV)

copolymers, which are polyhydroxyalkanoates, are characterized (column 6, lines 32-

41) as between about 140 C to 175 C.

7. Claims 1, 2, 4, and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Evans, US 3,196,122. See Evans at column 3, lines 7 et seq; and column 4, lines 4 et seq, particularly 13-15.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

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the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

10. Claims 1-6 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Lenney, US 3,830,761. Lenney (abstract; column 1, lines 47-51; column 2, lines 17-19; column 4, lines 12-25, and 72 et seq; column 5, lines 65-70; examples and claims) disclose emulsion polymerization of latex paints having a Tg 20 C to –10 C, a particle size of 0.25 micron, and production temperatures of up to not much in excess of 80 C.

Lenney discloses (column 4, lines 12-25) the use of interpolymer stabilizers reading on the monomer component with reactive emulsifier to achieve fine particle sizes and characterize said monomers as resulting in the polymer particles.

While Lenney does not explicitly recite the melting point, said melting point would have been expected to have been inherent to the compositions of Lenney since one skilled in the art would desire to avoid melting temperatures during processing, which Lenney teaches temperatures of up to not much in excess of 80 C.

To the extent Lenney differs from the melt temperature of the materials, it would have been obvious to one of ordinary skilled in the art at the time of applicants'

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invention to modify the melt temperature for the advantage of obtaining a harder coat and/or higher scrub resistance by the incorporation of higher interpolymer materials.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references cited by applicants are either cumulative to the above relied on references or less relevant. Noted is the European search report wherein several of the references were cited as X references for original claims 1, 4 and/or 2.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel S. Metzmaier whose telephone number is (571) 272-1089. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Daniel S. Metzmaier **Primary Examiner**

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DSM